

FIG. 1

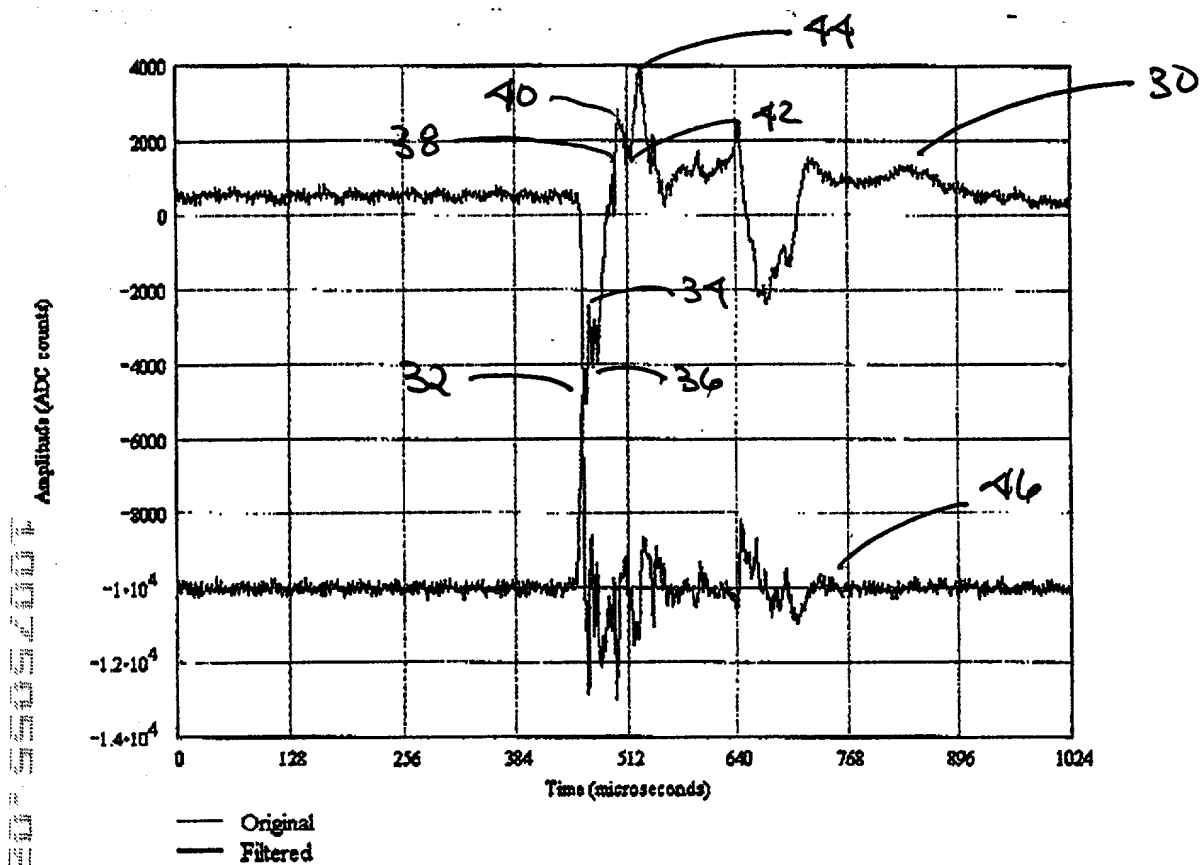


FIG. 2

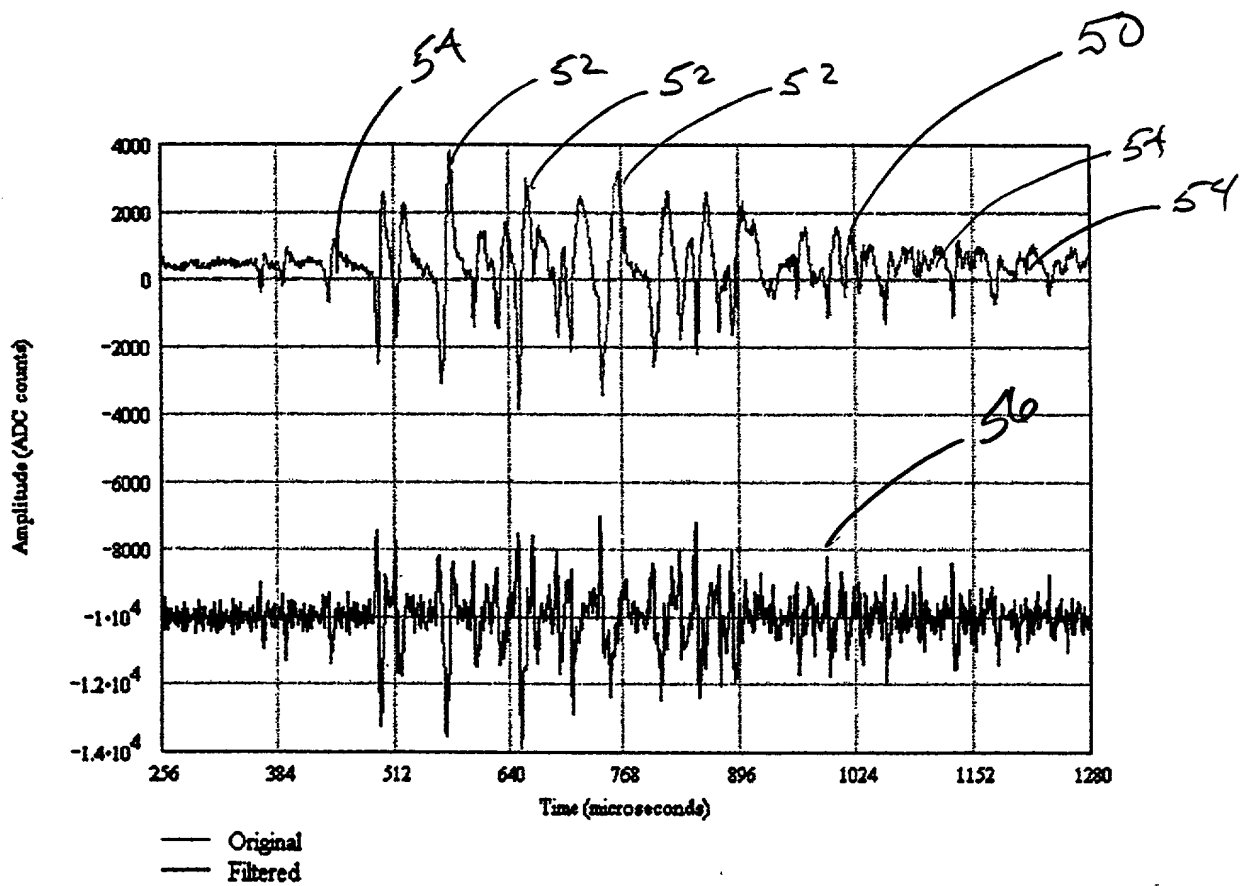
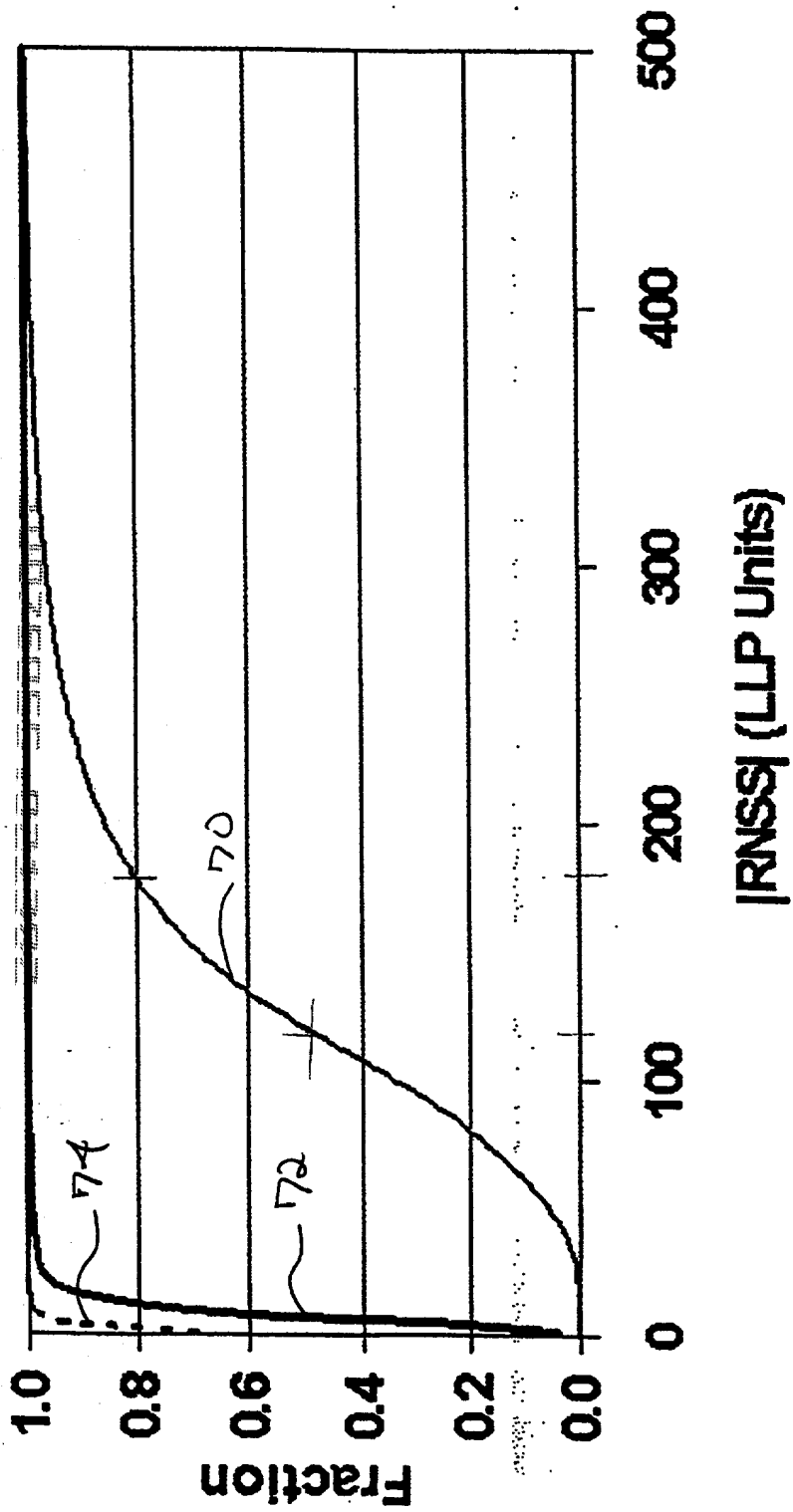


FIG. 3



— OG --- All cloud — Large cloud

F(2.4)

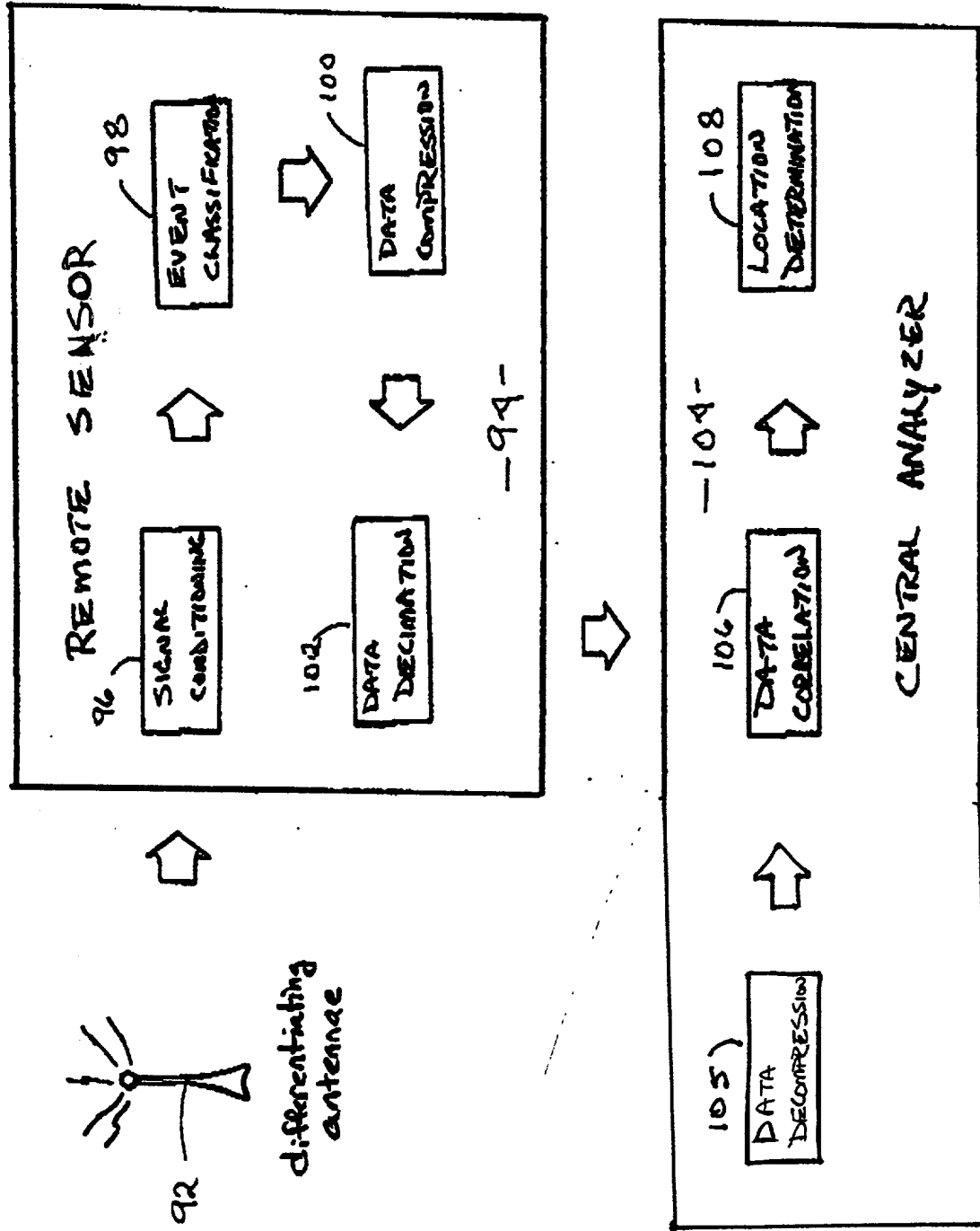


FIG. 5

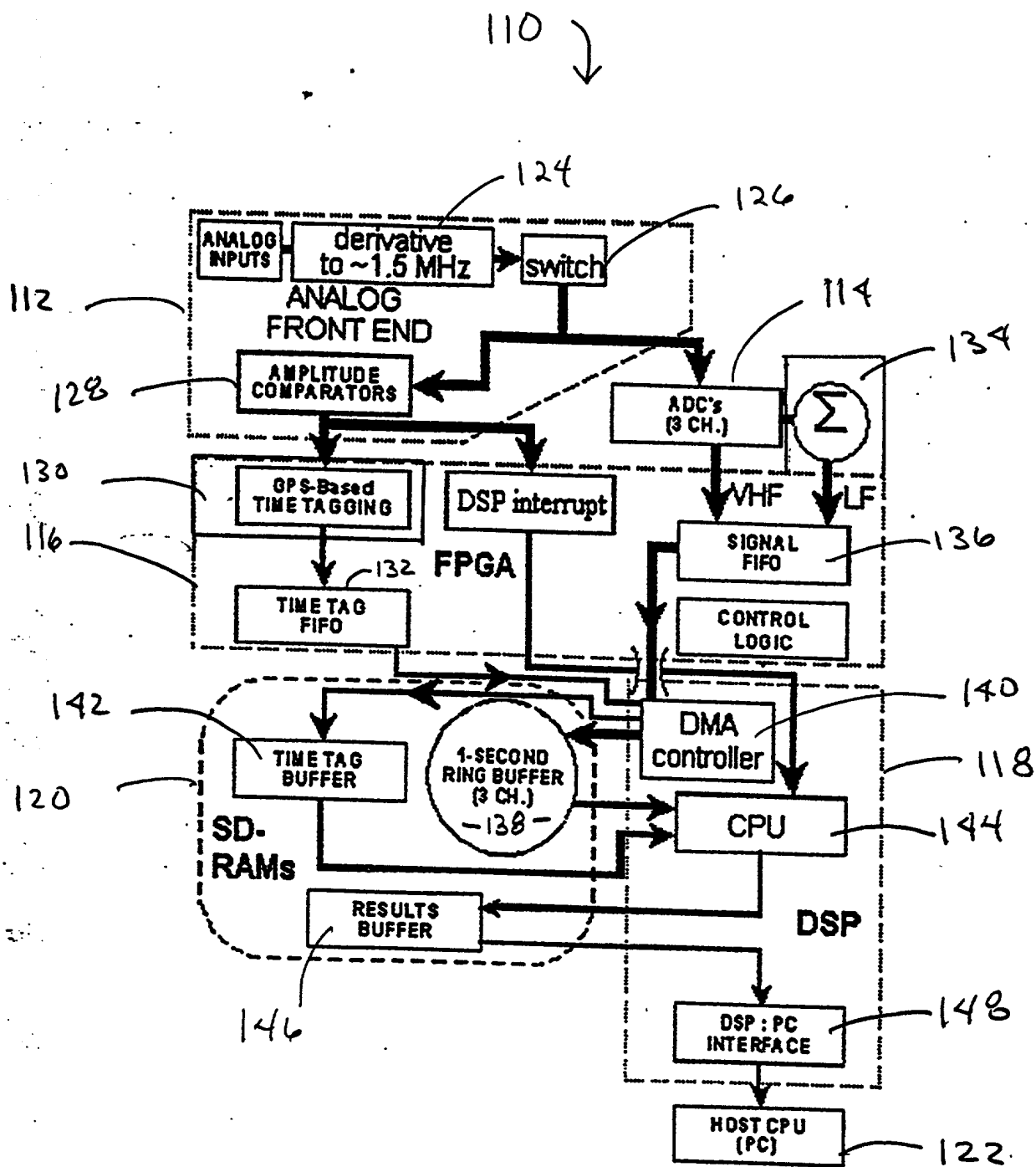


FIG. 6

# Major components of filtering & amplification

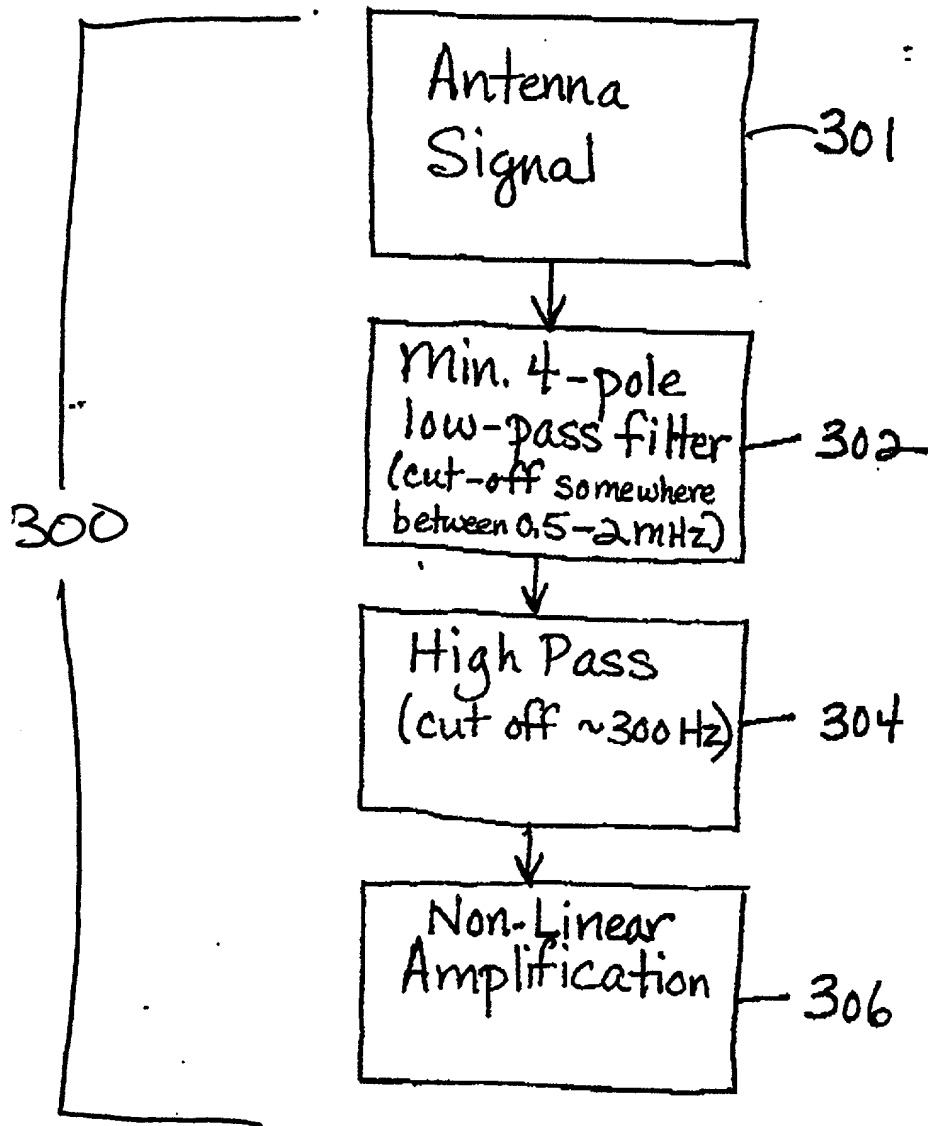


FIG. 7

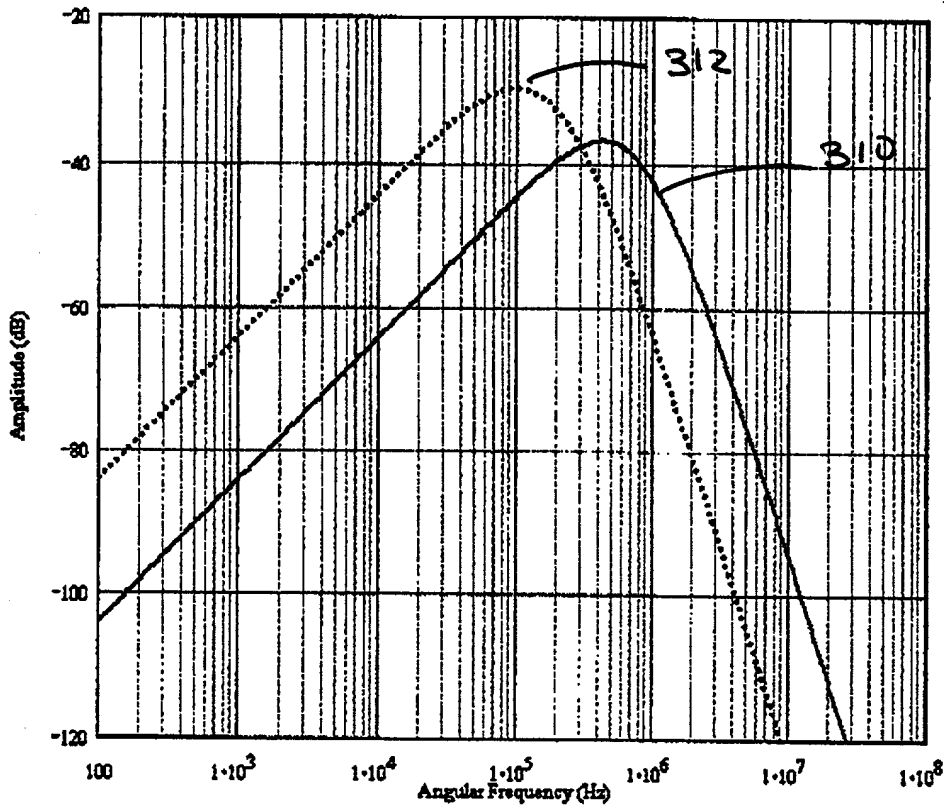


FIG. 8



Figure 1 is a graph showing the output of two neural networks, 330 and 332, as a function of input 'in'. The x-axis ranges from -400 to 400, and the y-axis ranges from -6 to 6. Network 330 (solid line) is a smooth sigmoid curve passing through (0,0). Network 332 (dotted line) is a piecewise linear approximation of the sigmoid curve, also passing through (0,0). The legend indicates that the solid line represents  $\frac{\text{out1(in)}}{\text{out2(in)}}$  and the dotted line represents the output of network 332.

FIG. 9

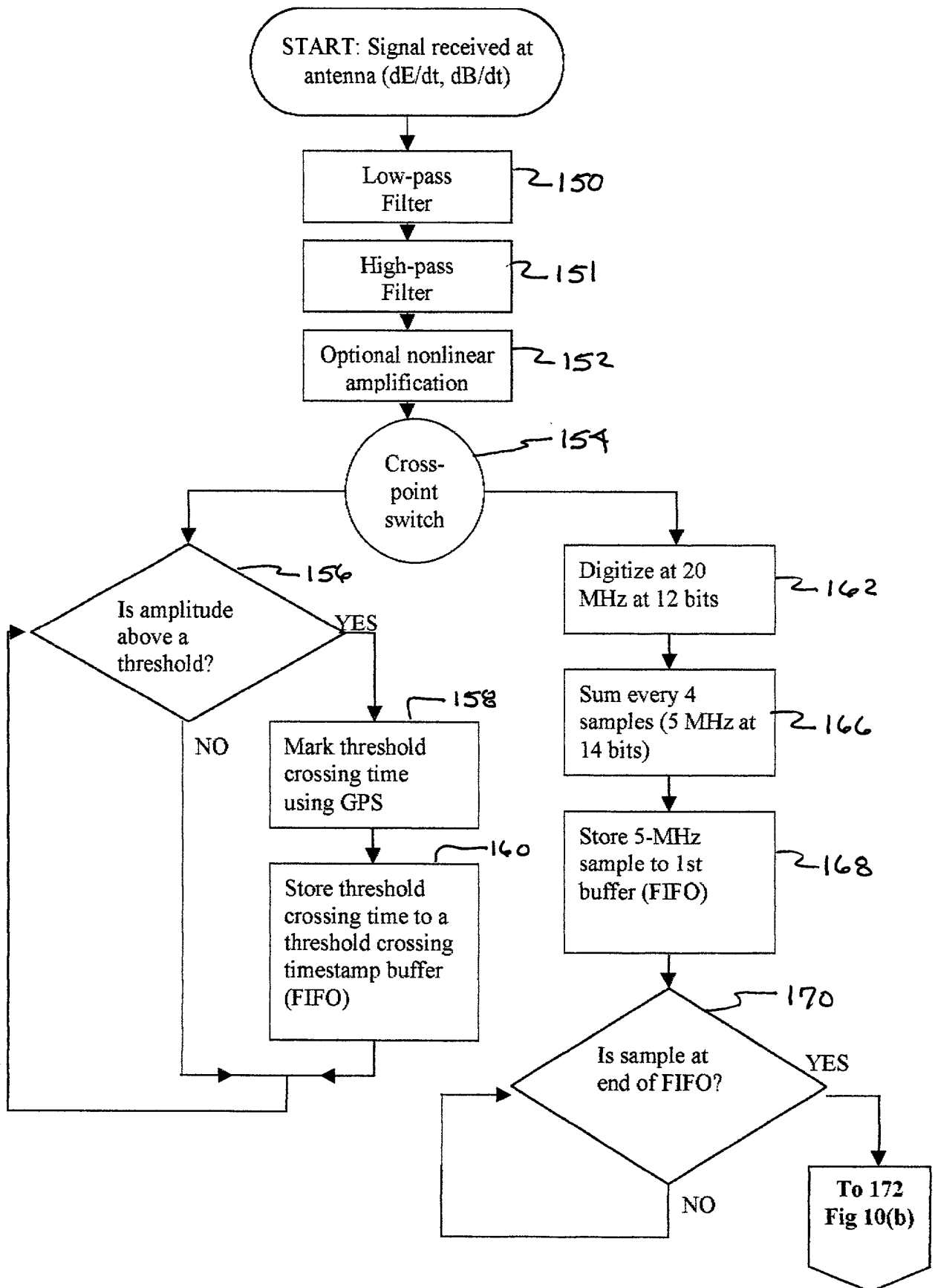


Fig. 10(a)

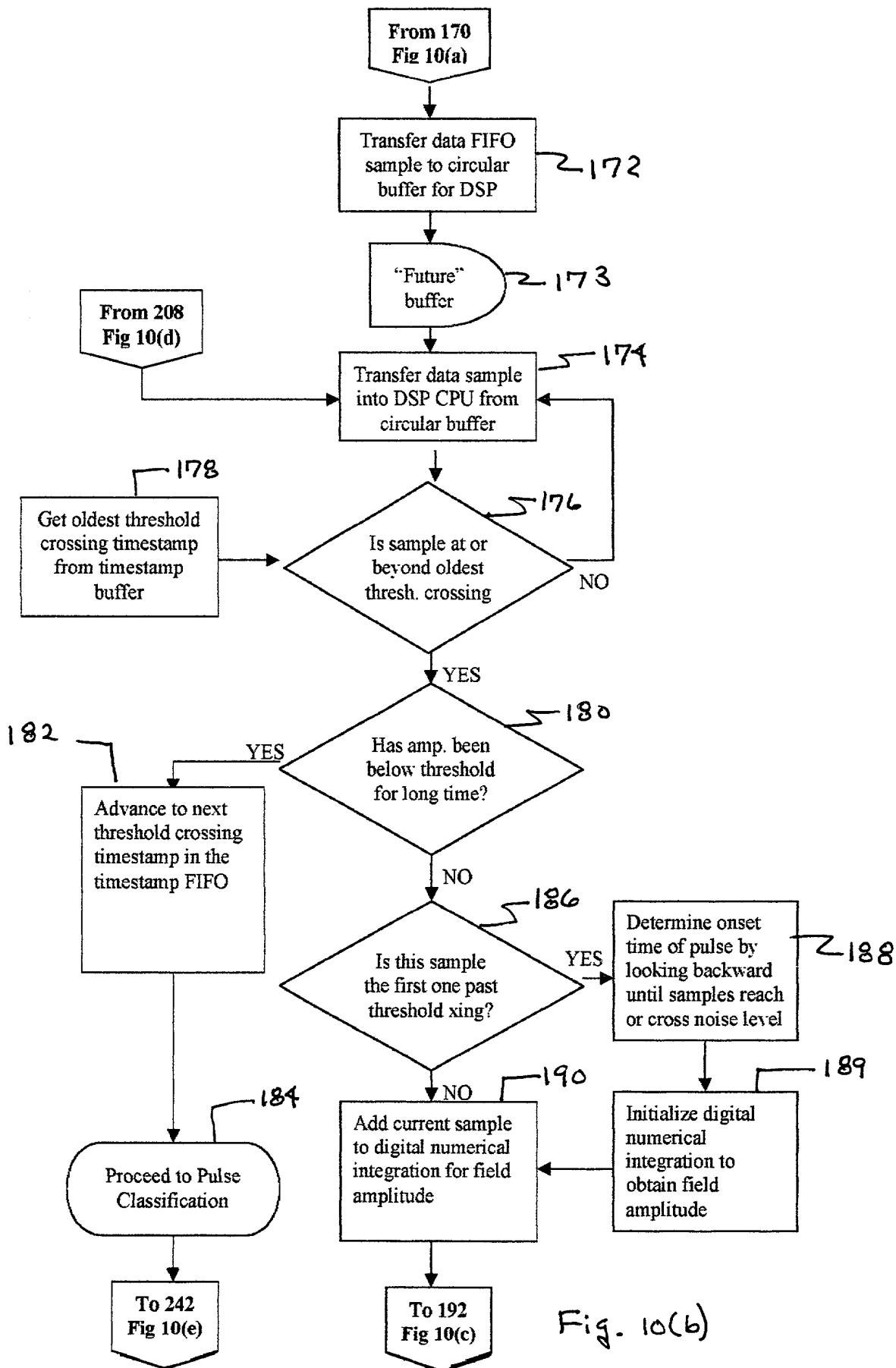


Fig. 10(b)

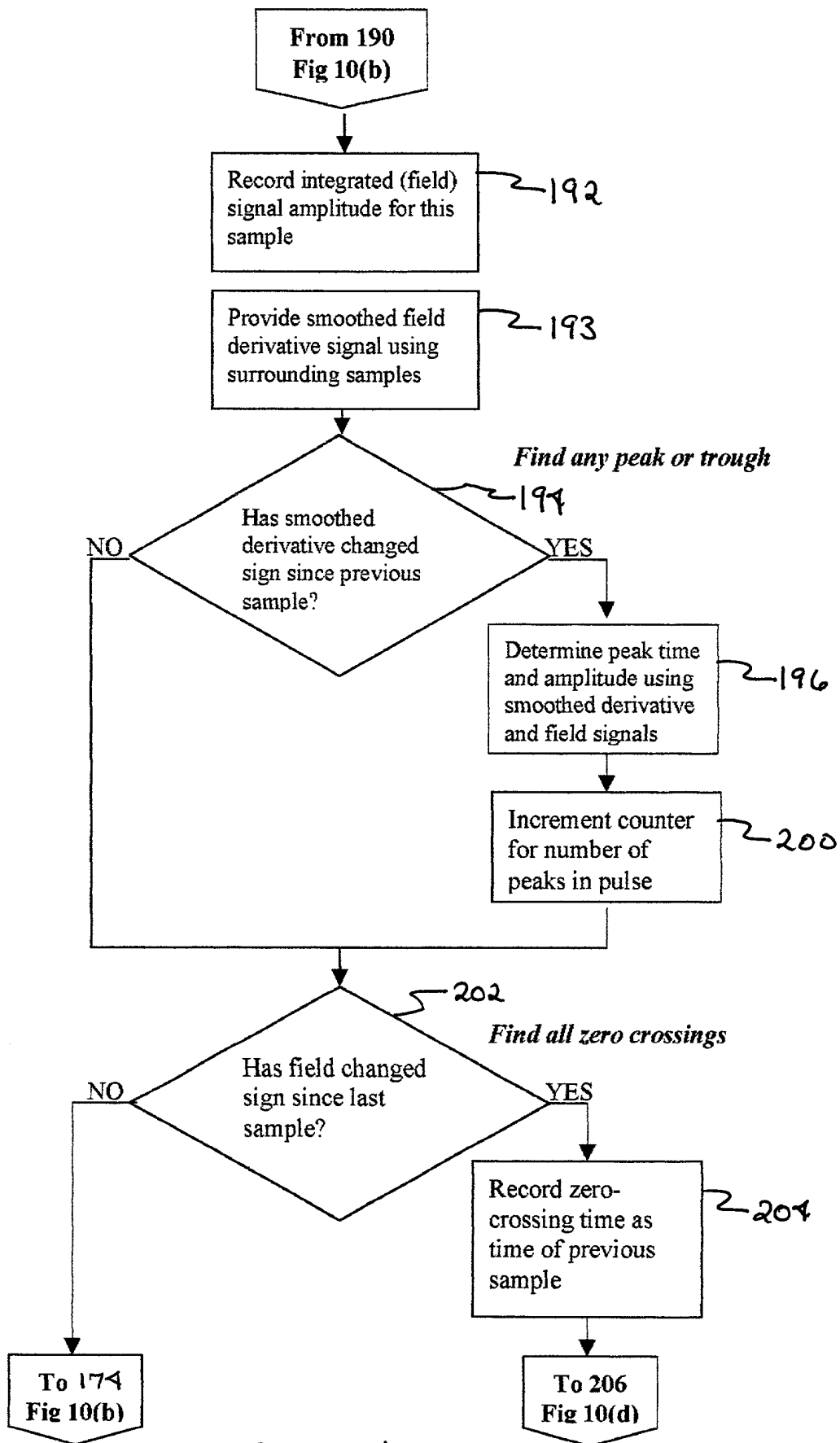


Fig. 10(c)

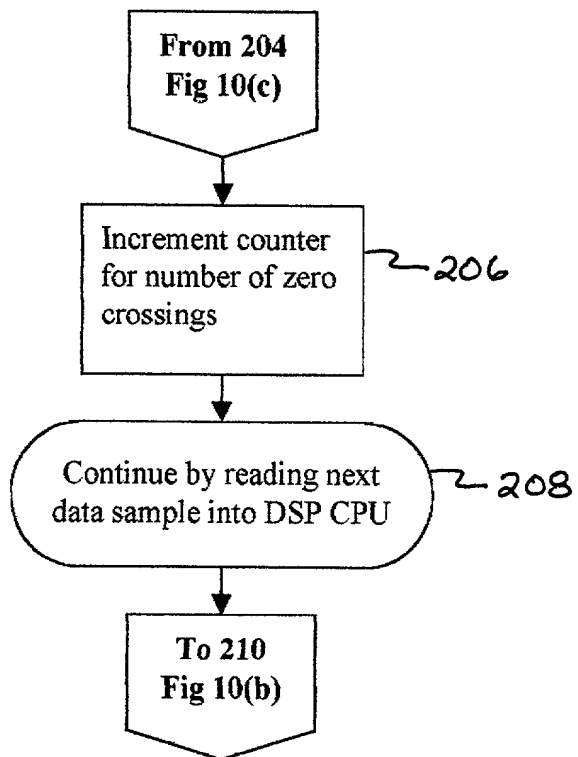


Fig. 10(d)

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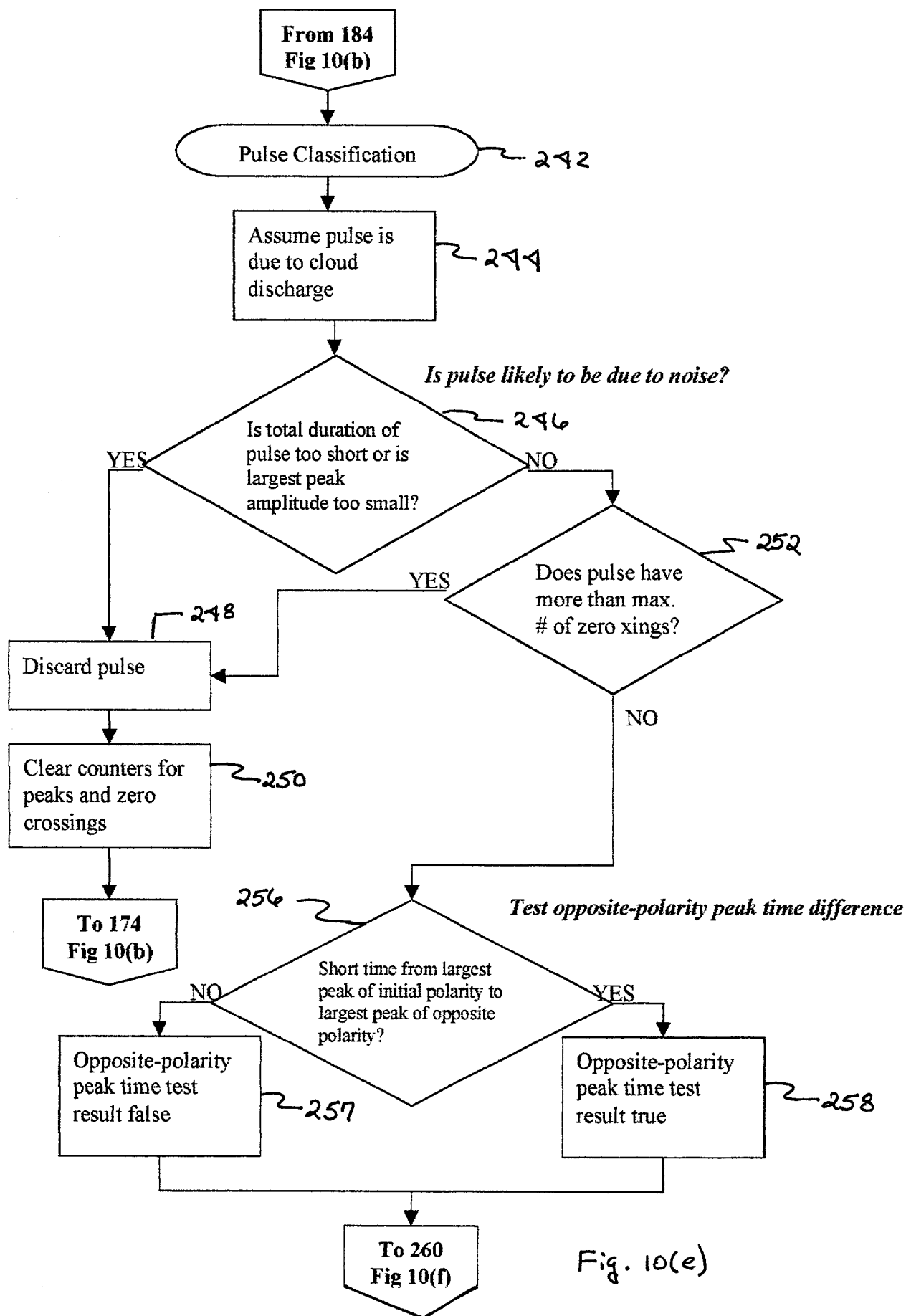


Fig. 10(e)

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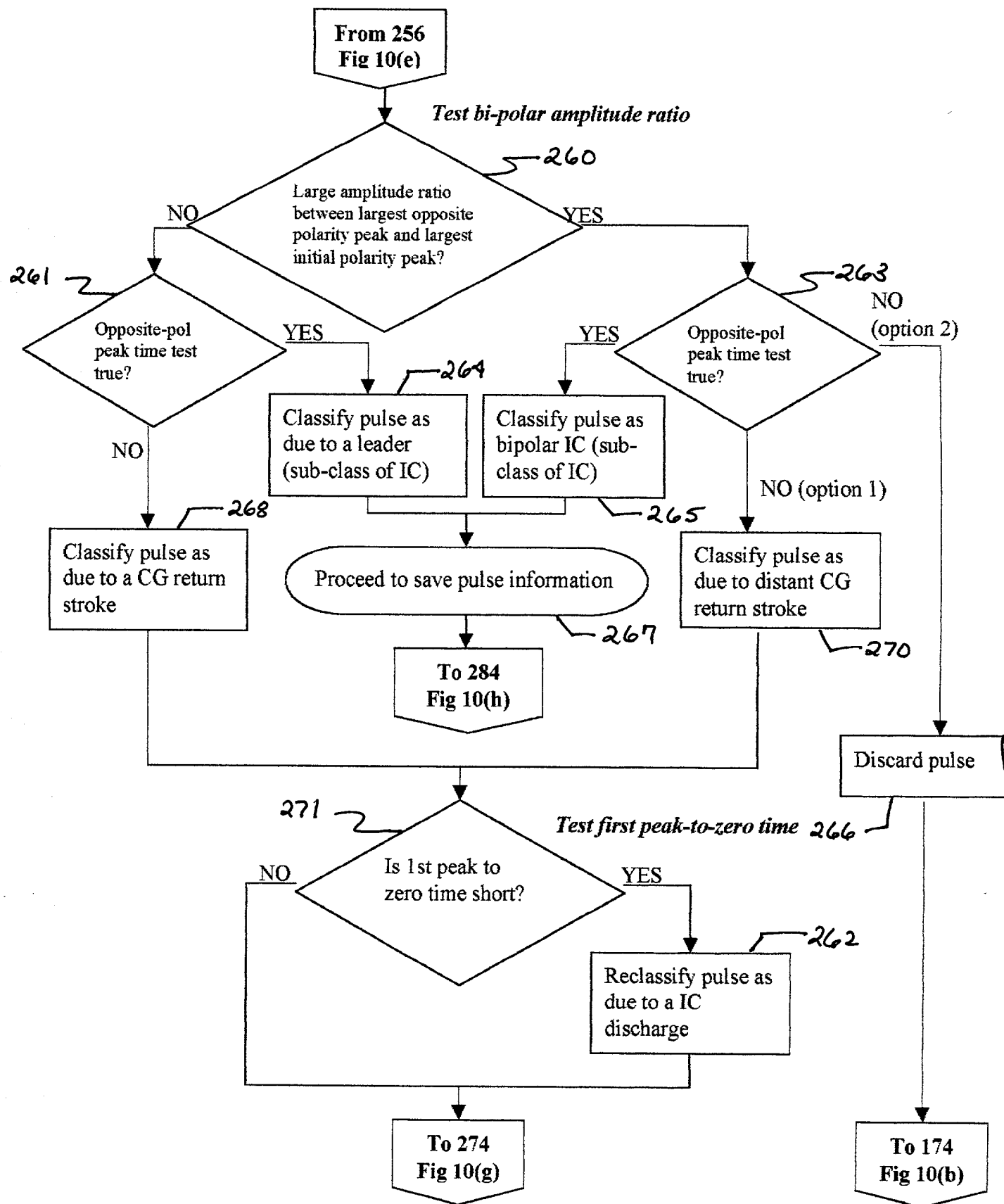


Fig. 10(f)

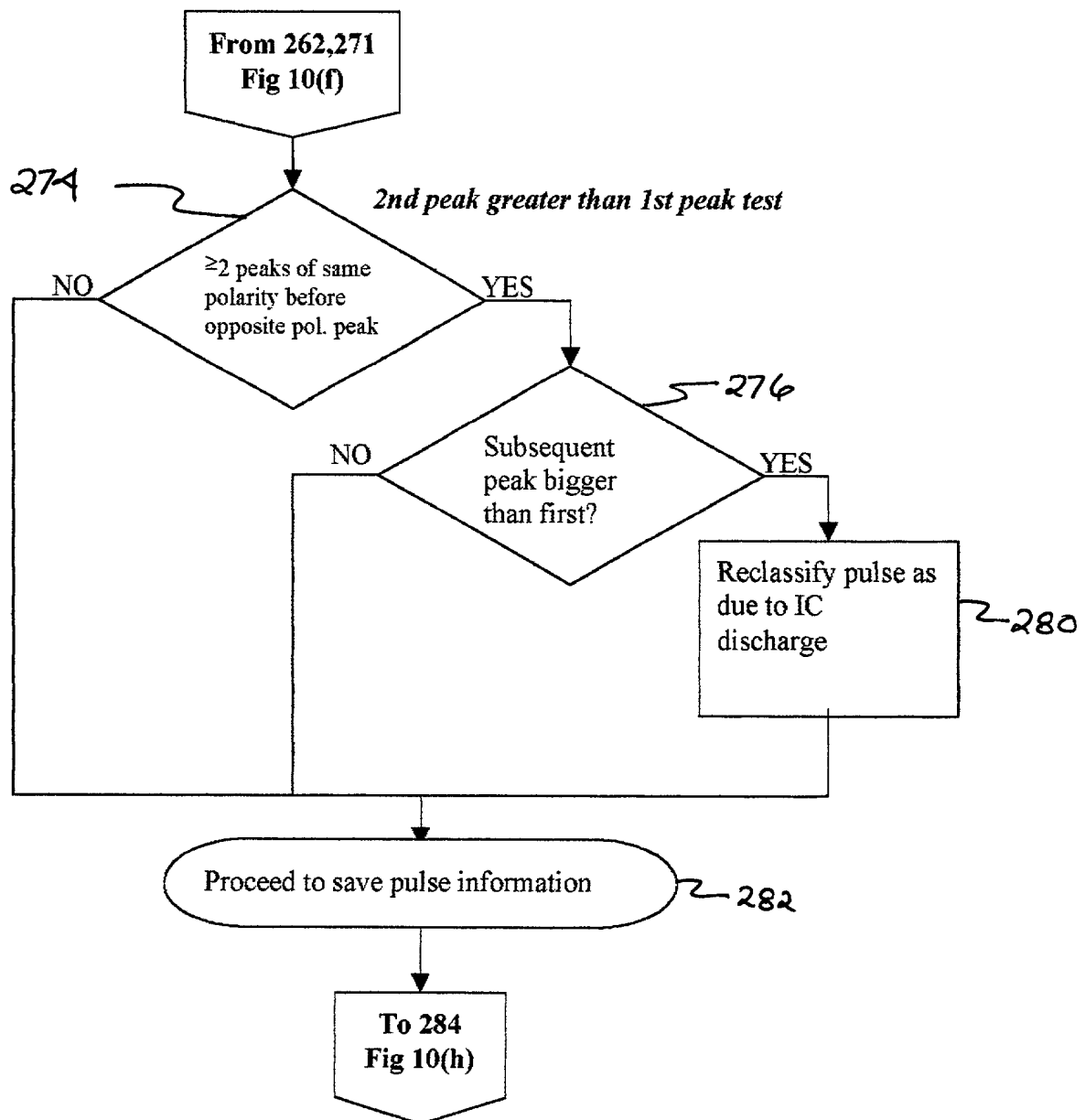


Fig. 10 (g)



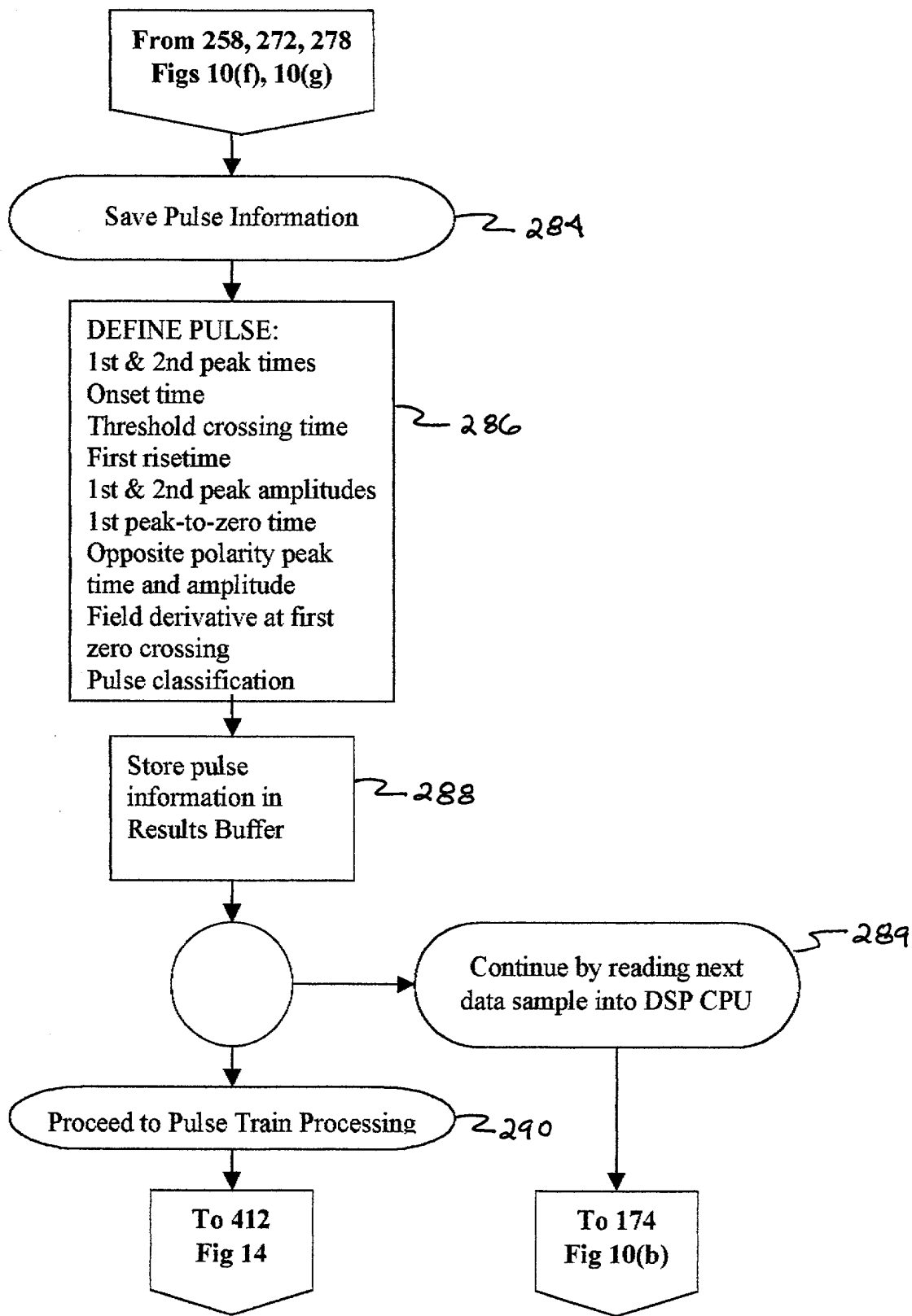


Fig. 10(h)

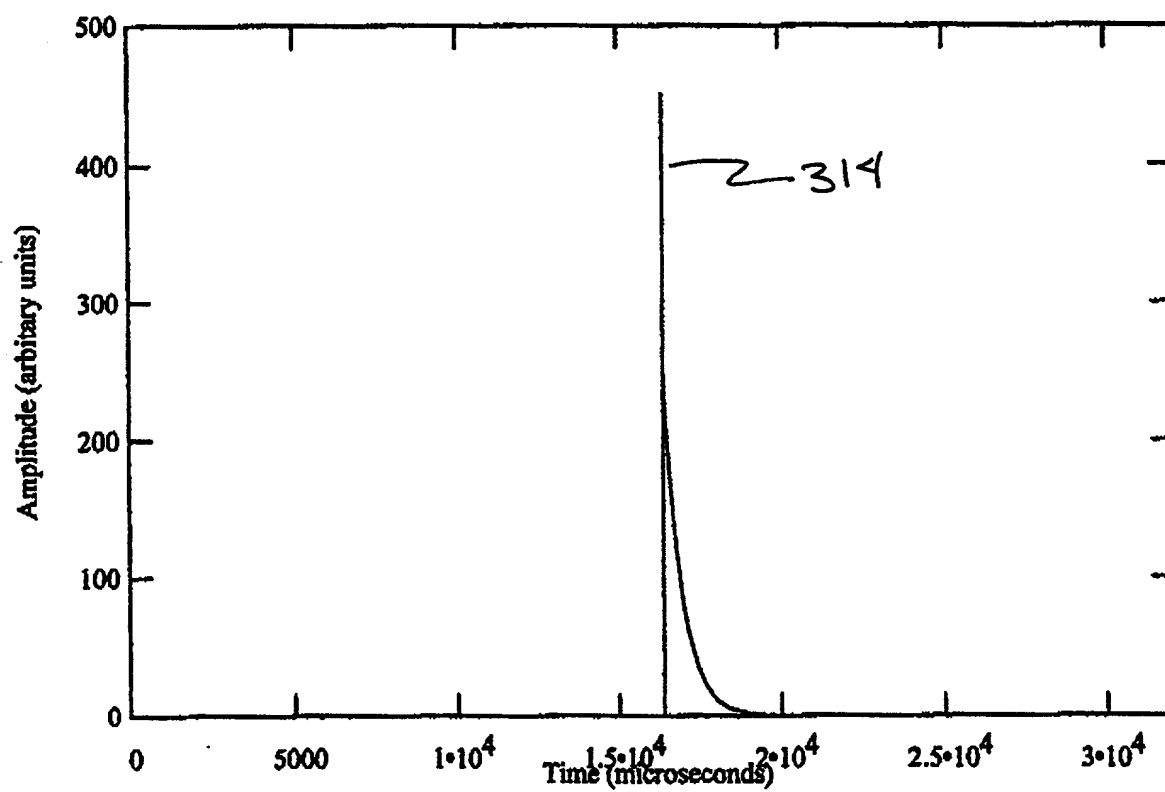


FIG. 11

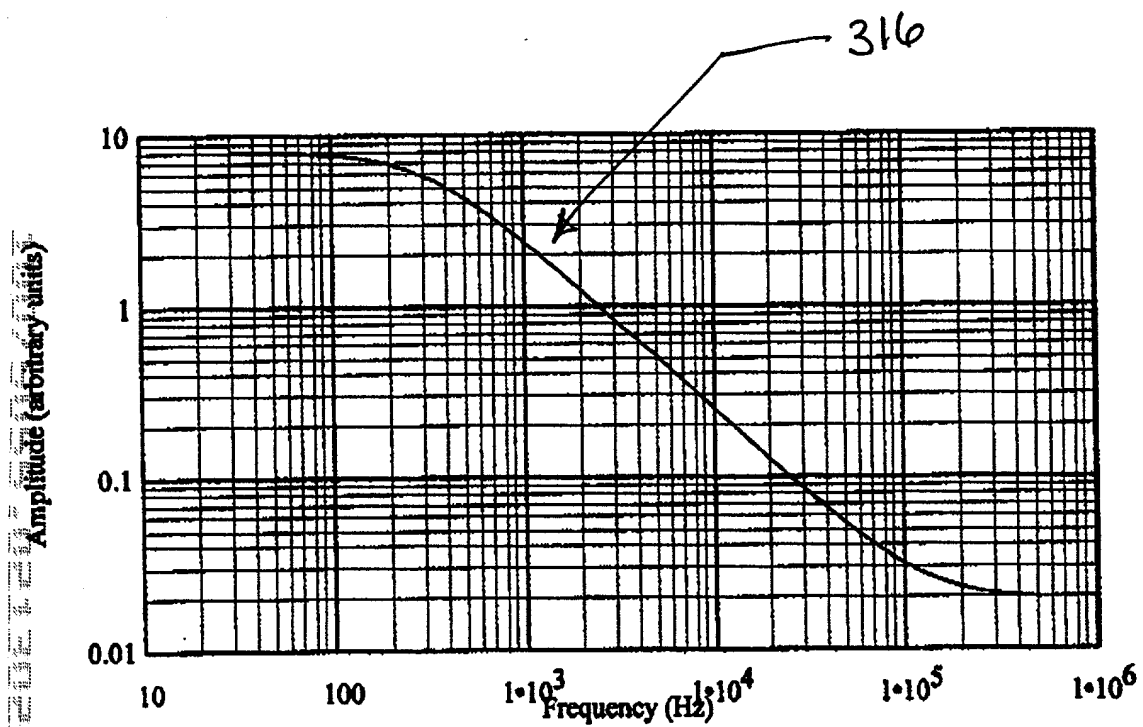


FIG. 12

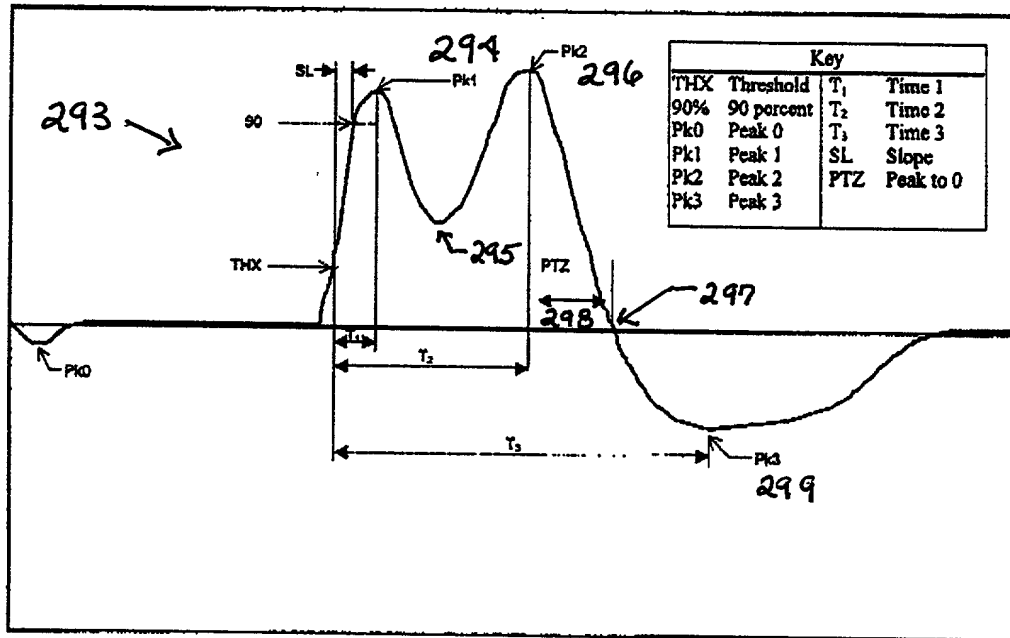


FIG. 13

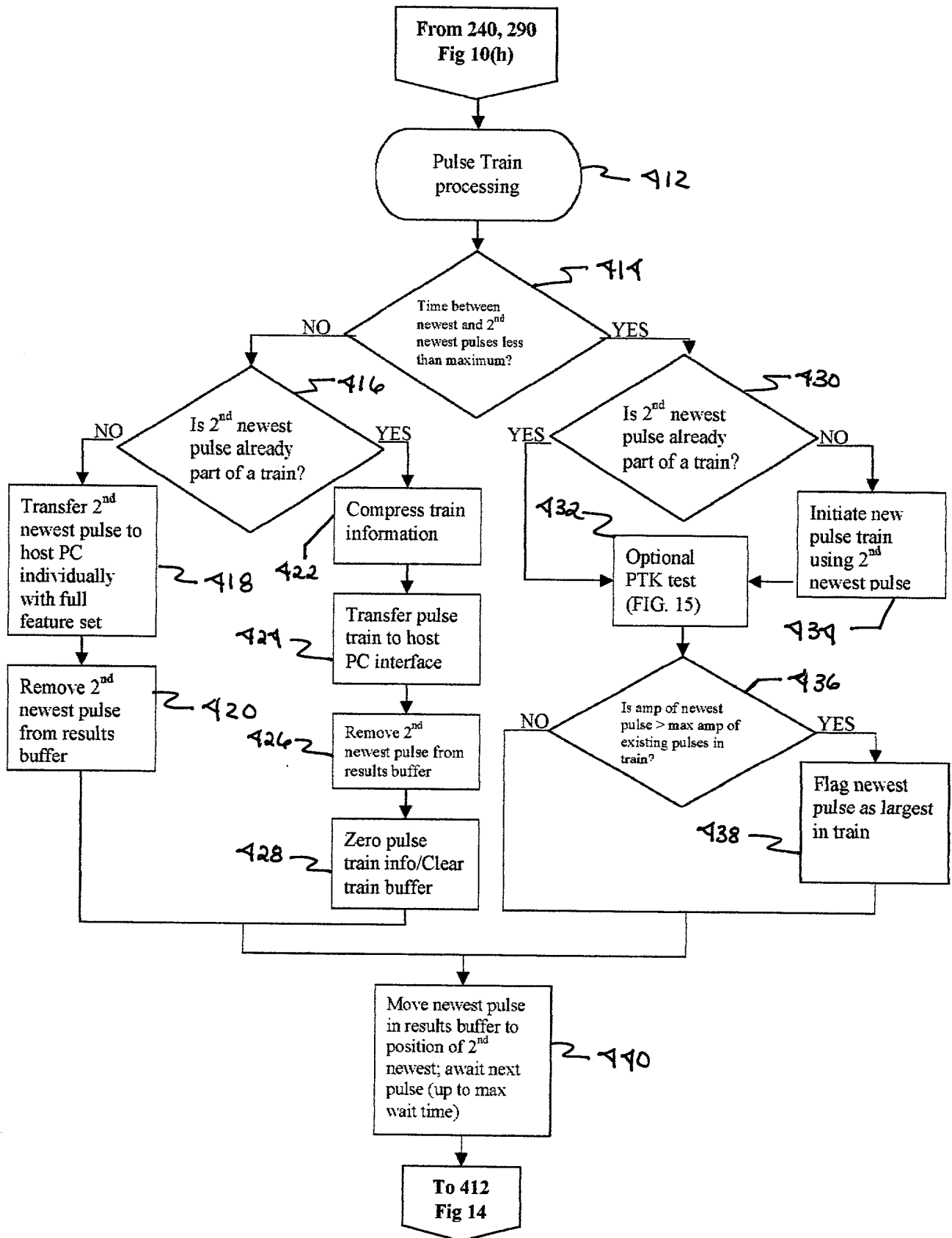


Fig. 14

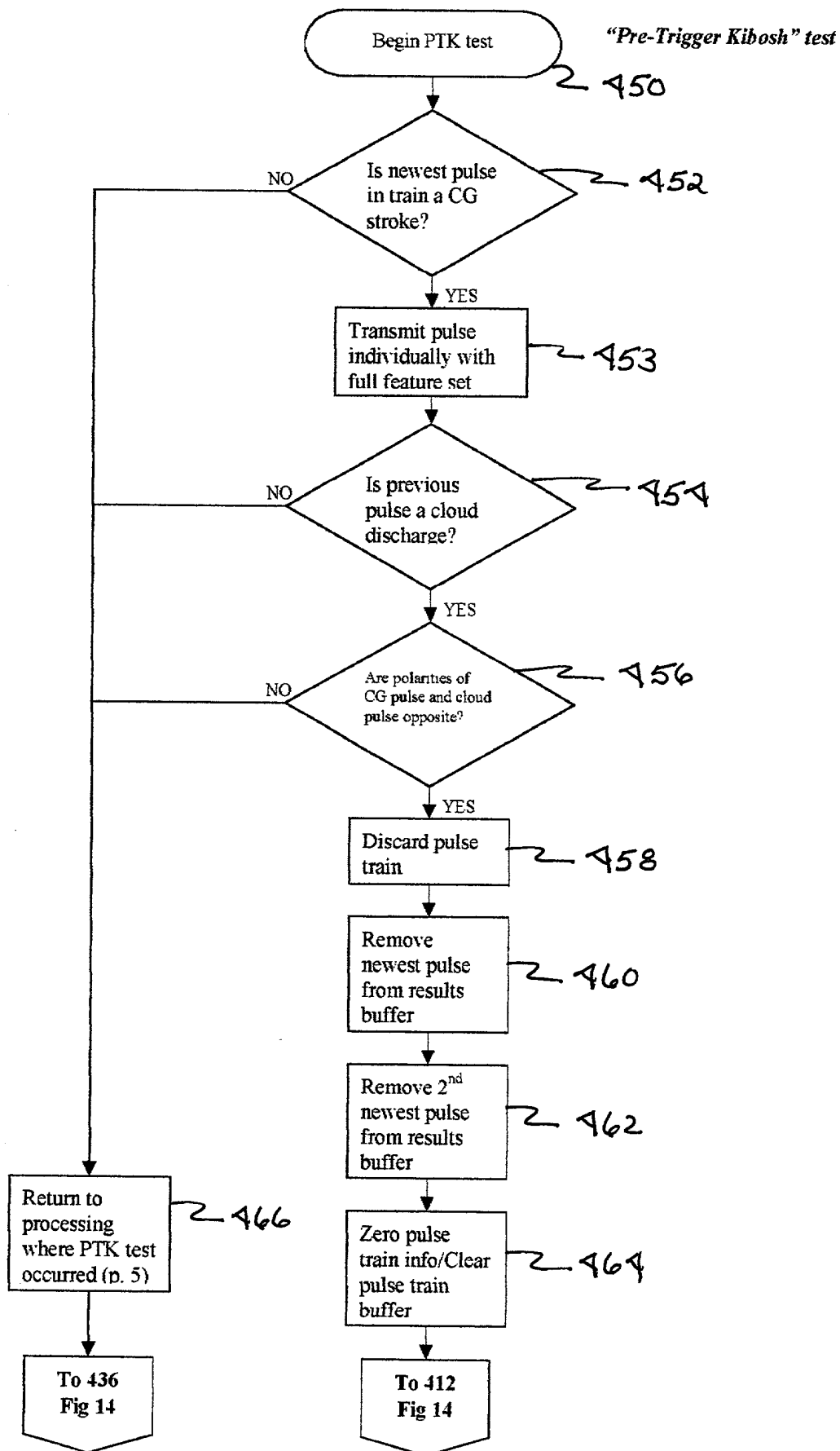


Fig. 15

470		472		474		476	
<u>Pulse</u>	<u>Time (frac. of sec.)</u>	<u>Time (microsec)</u>		<u>Amplitude (count)</u>			
471 → 1	0.000500	500		4400			
473 → 2	0.000630	630		5100			
→ 3	0.000800	800		2900			
→ 4	0.000840	840		5000			
→ 5	0.000990	990		2900			
→ 6	0.001060	1060		2500			

FIG. 16

# Complete representations — Decimal / Hexadecimal

Pulse 1	Time (to second):	997056000	3B6DDE00
	Fraction of second:	10000	2710
471 →	Amplitude:	4400	1130
	Angle:	359.99°	7FFF
	Classification:	Cloud	1
			488

FIG. 17



492

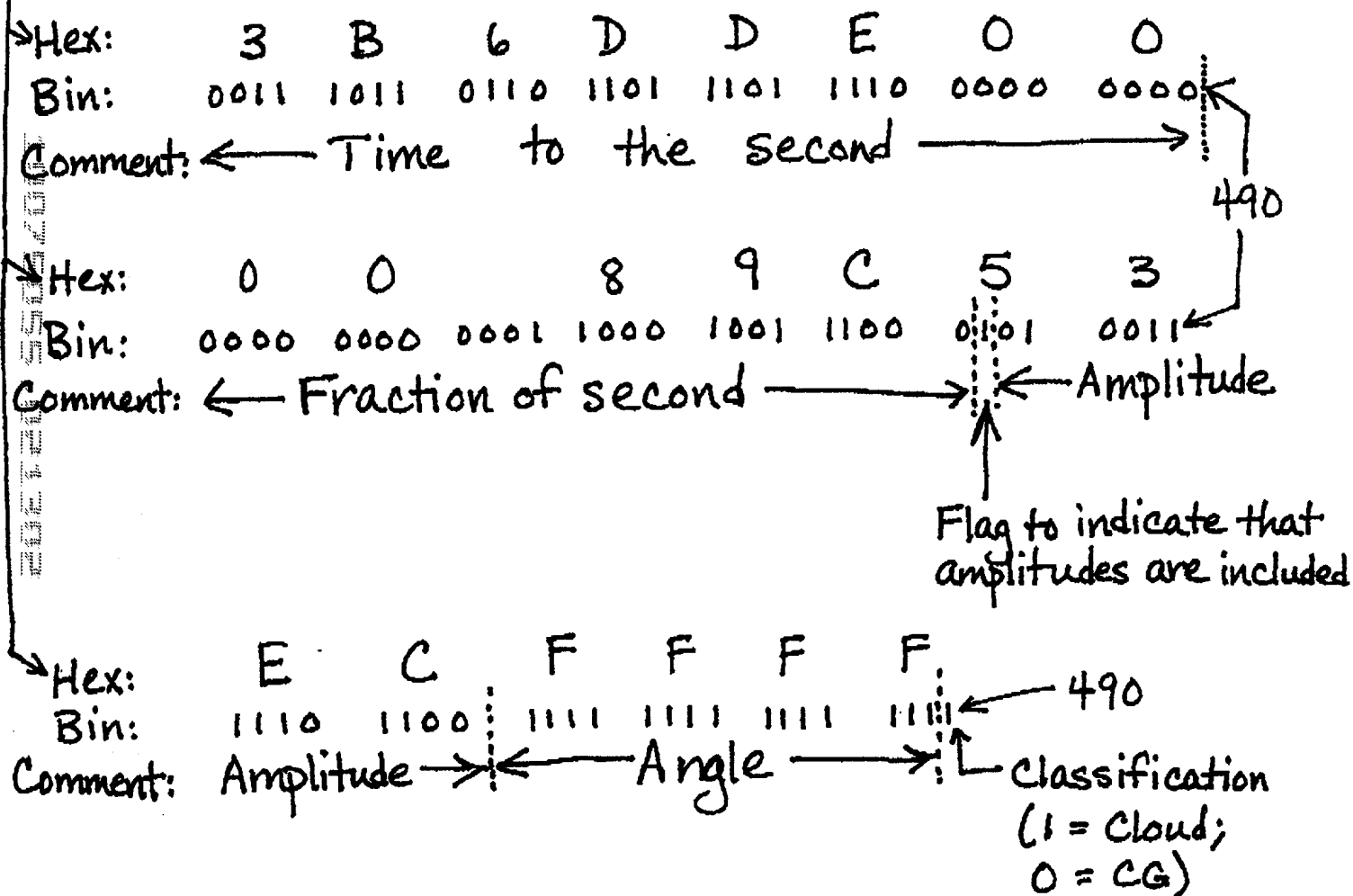


FIG. 18

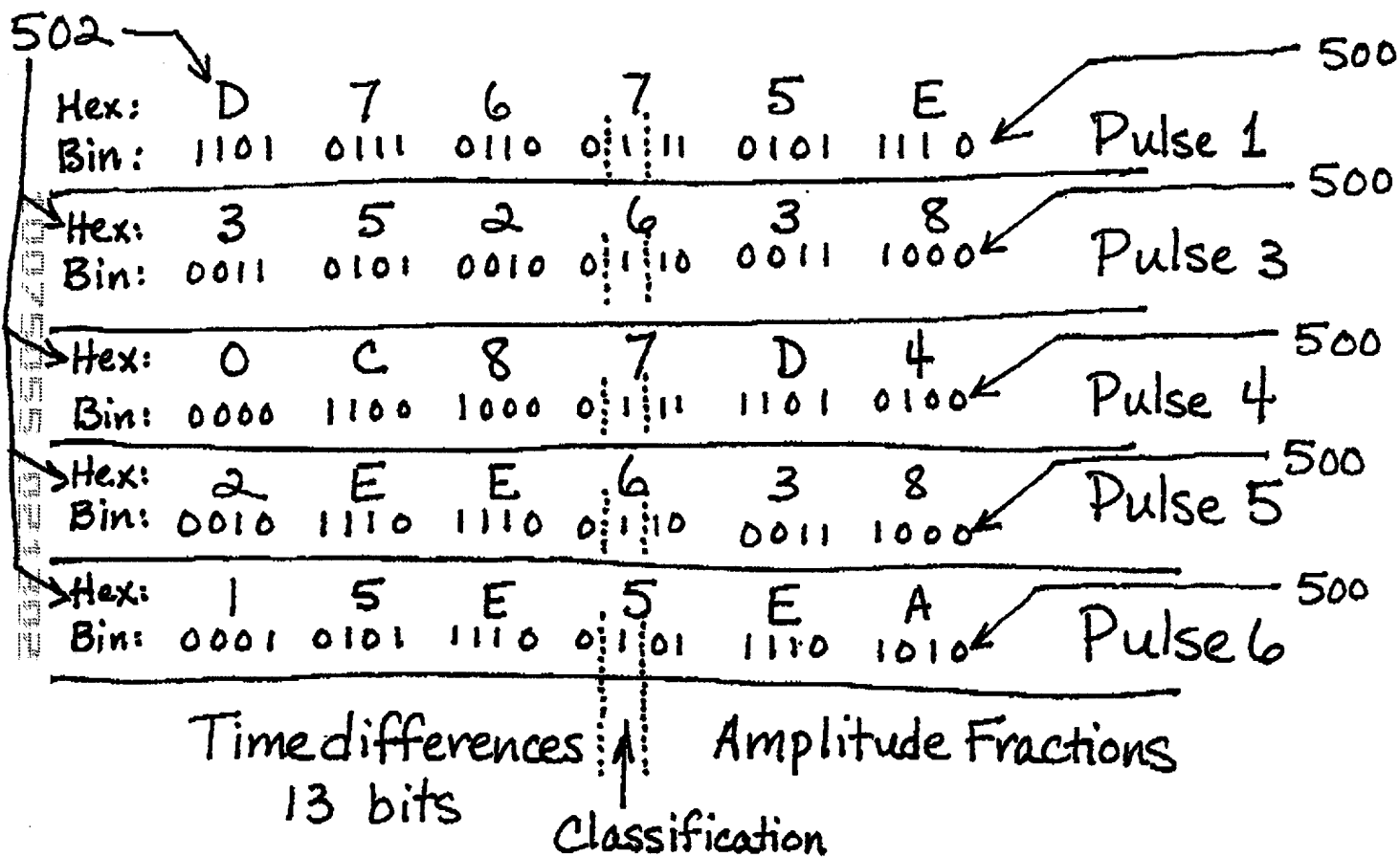


FIG. 19

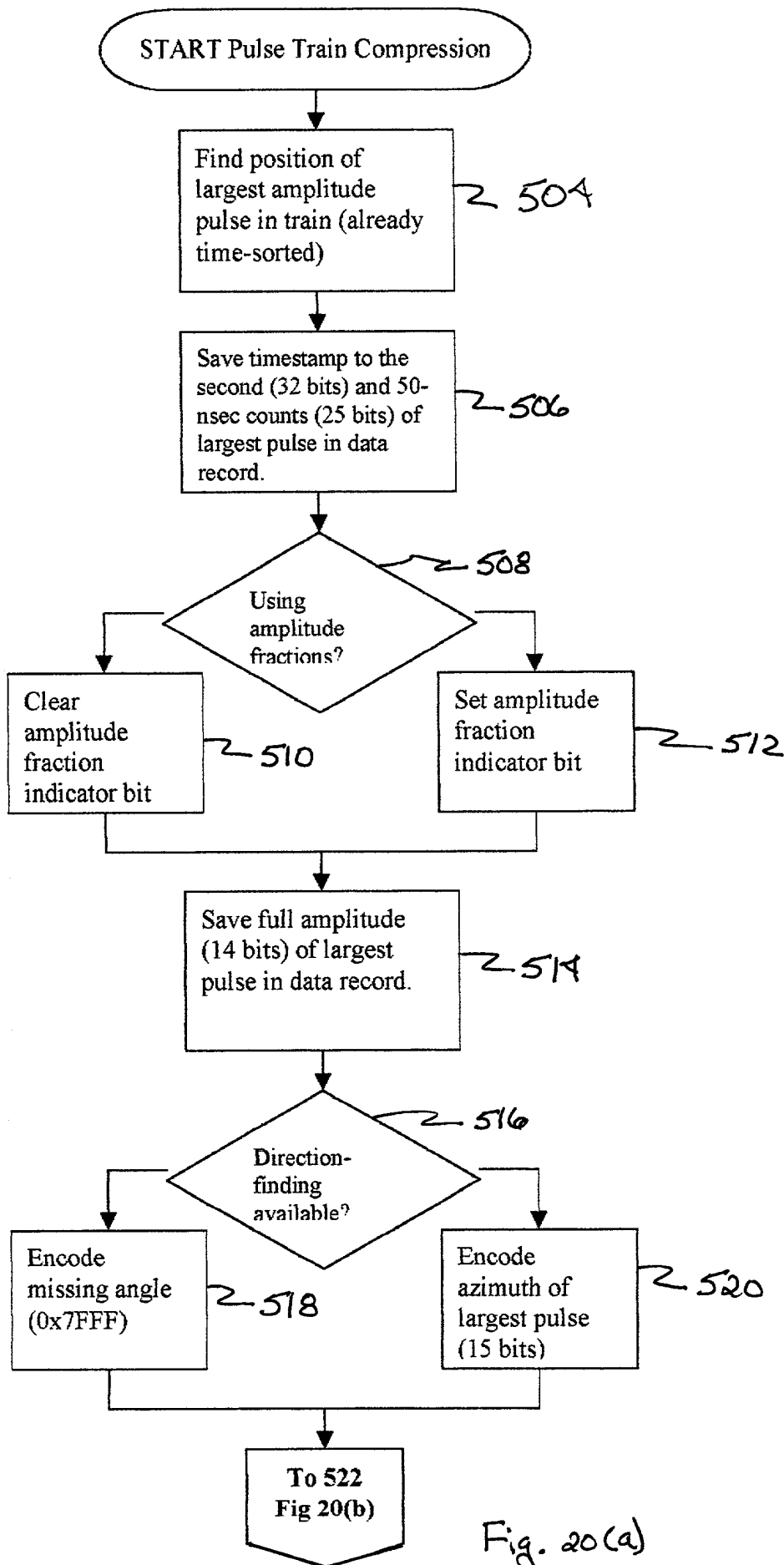


Fig. 20(a)

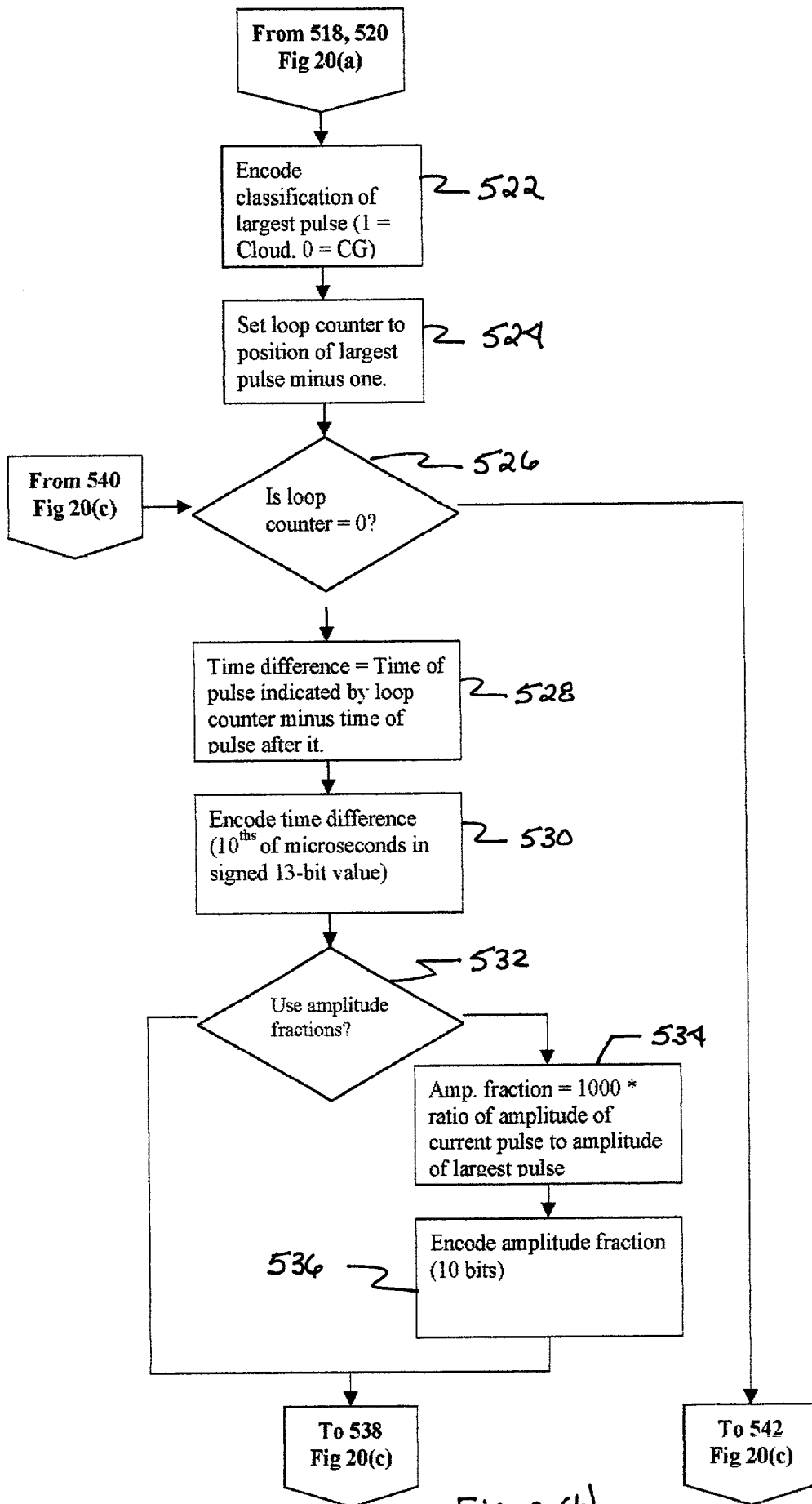


Fig. 20(b)

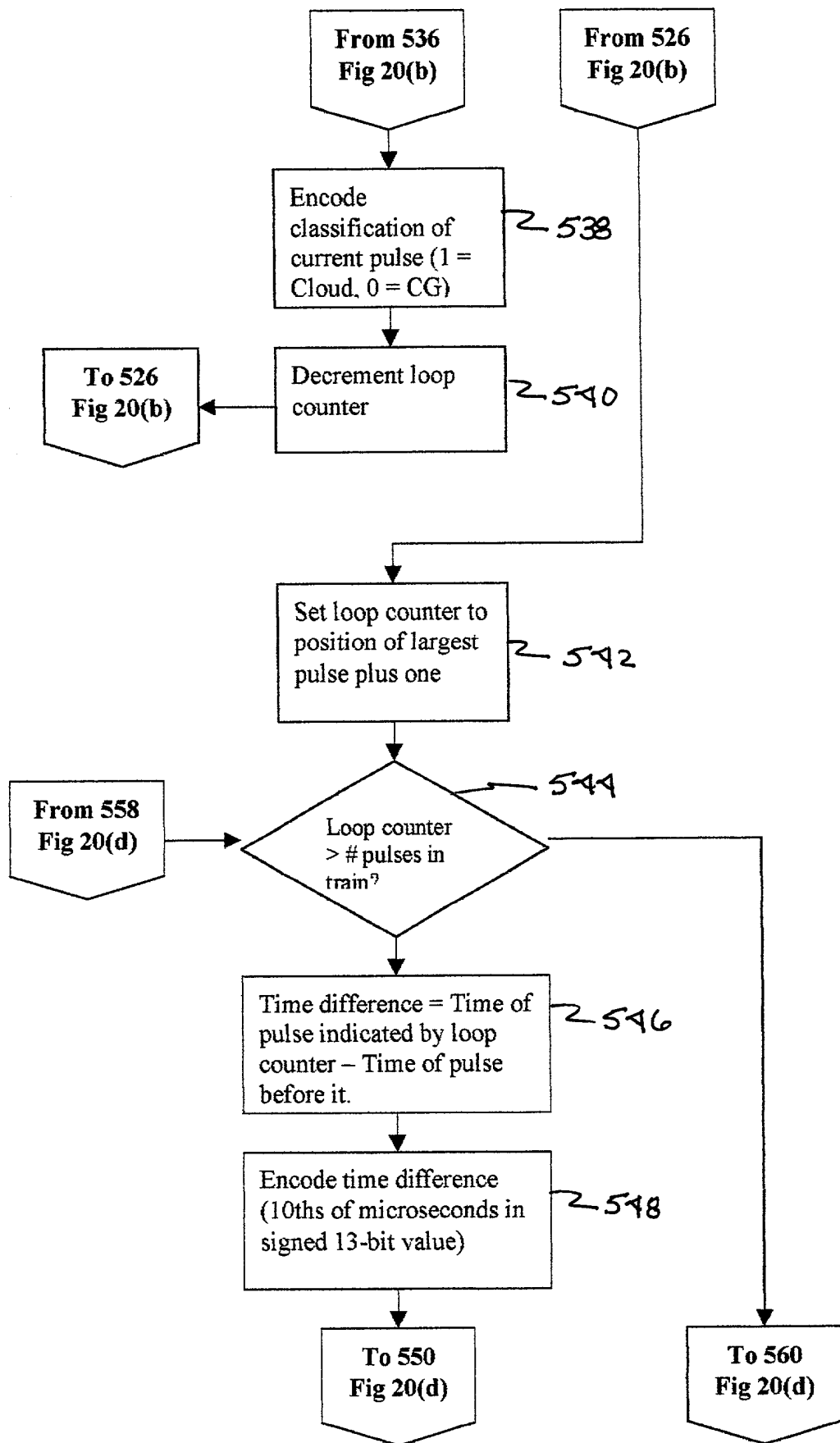


Fig. 20(c)

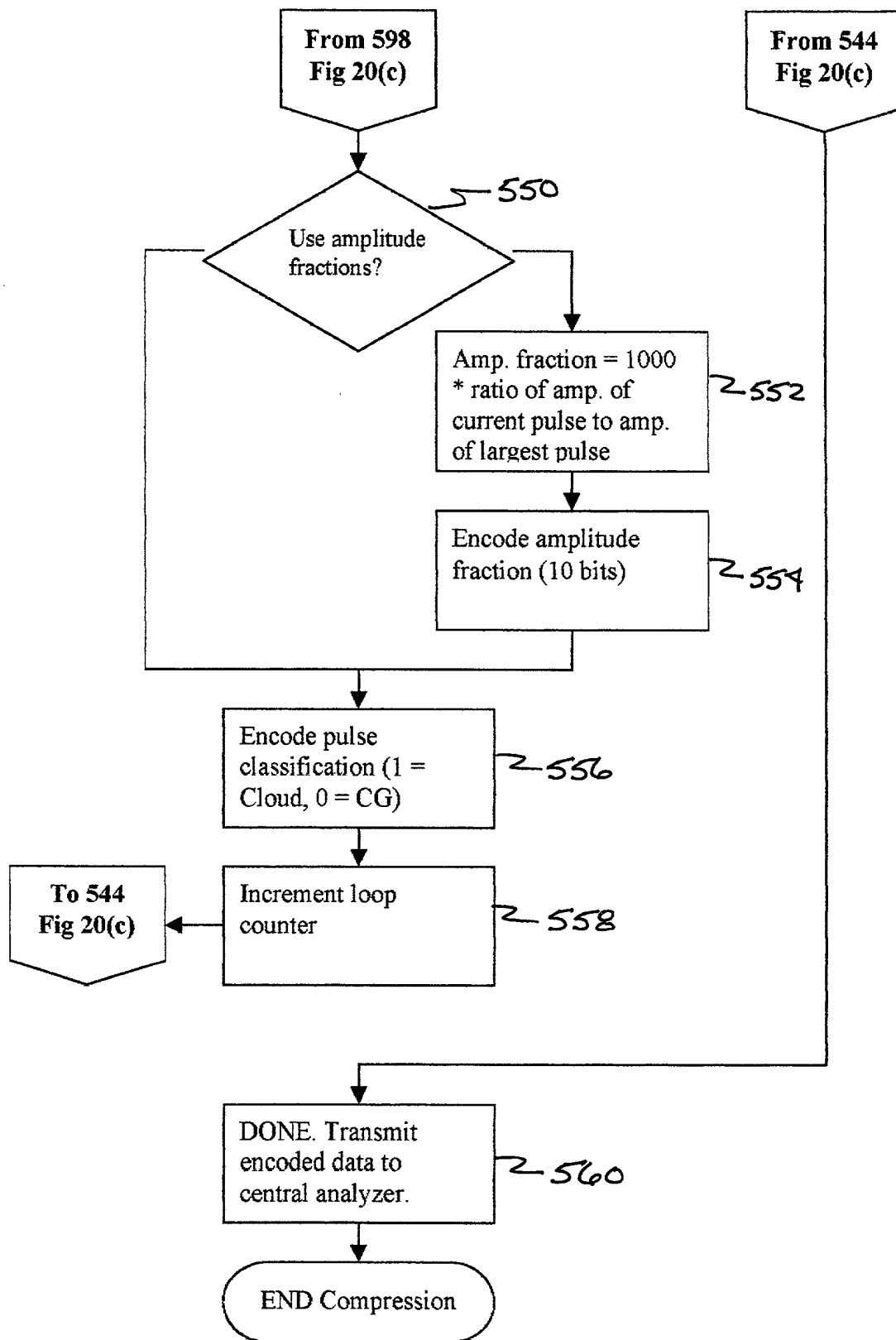
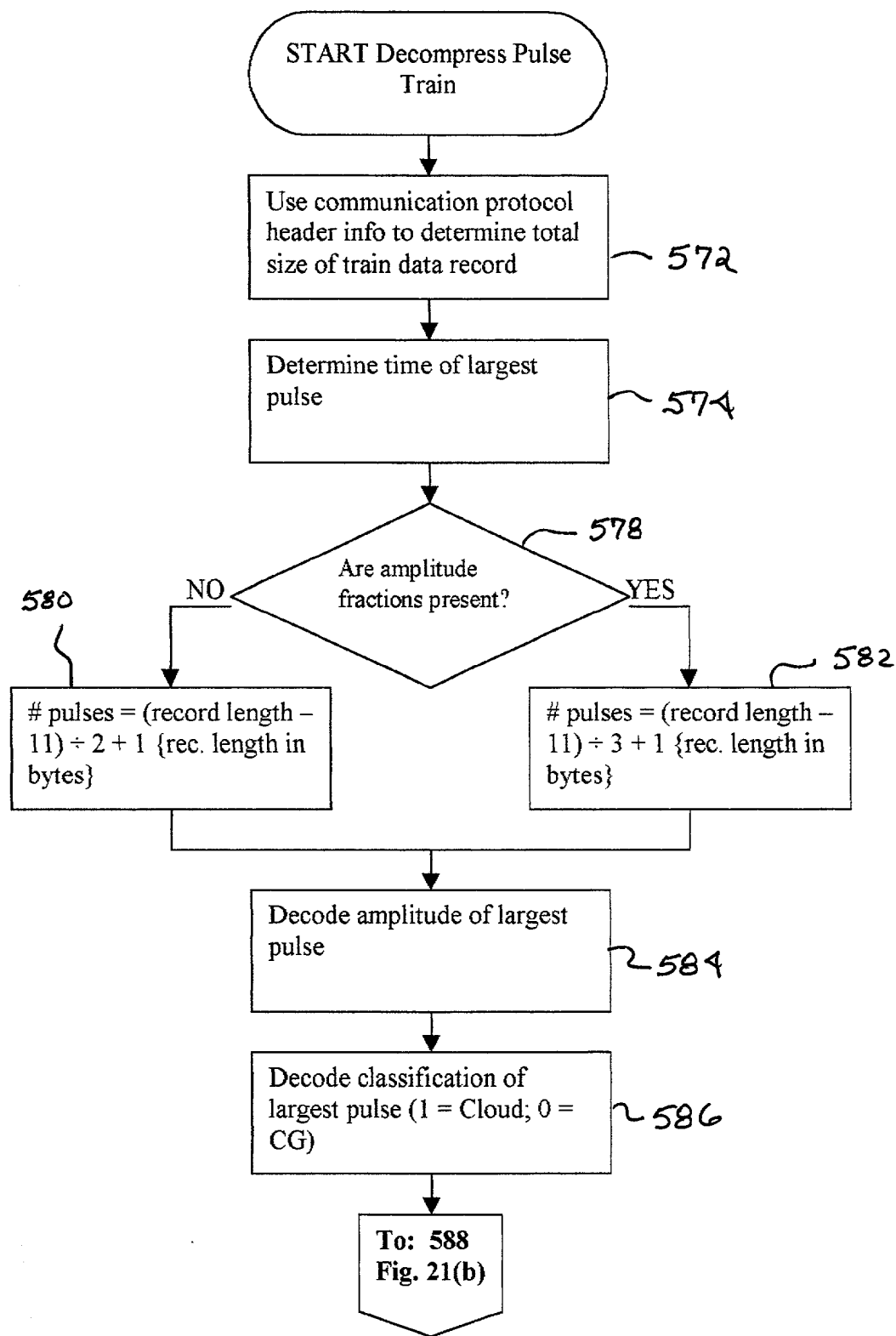


Fig. 20(d)



**Fig. 21(a)**

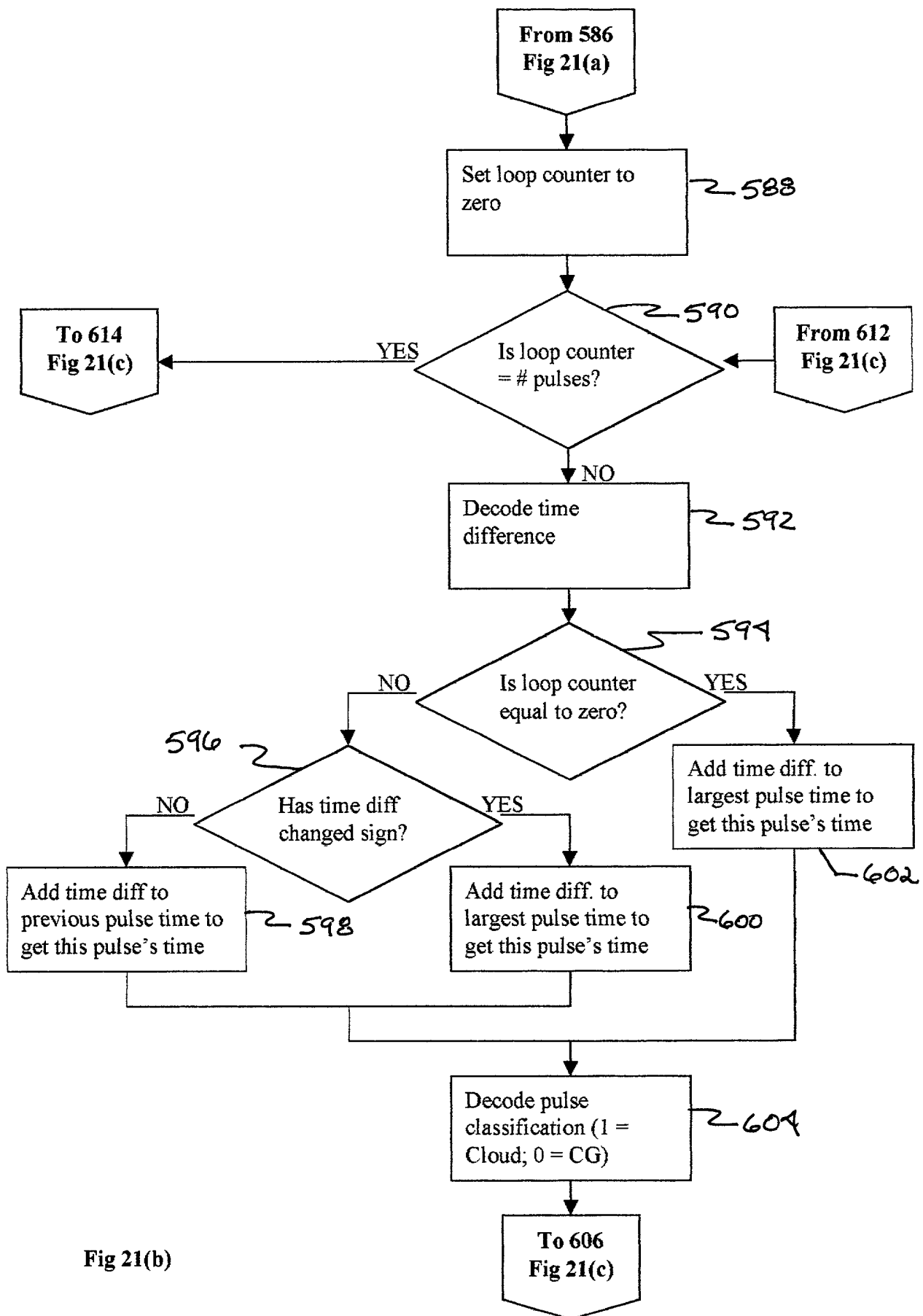


Fig 21(b)



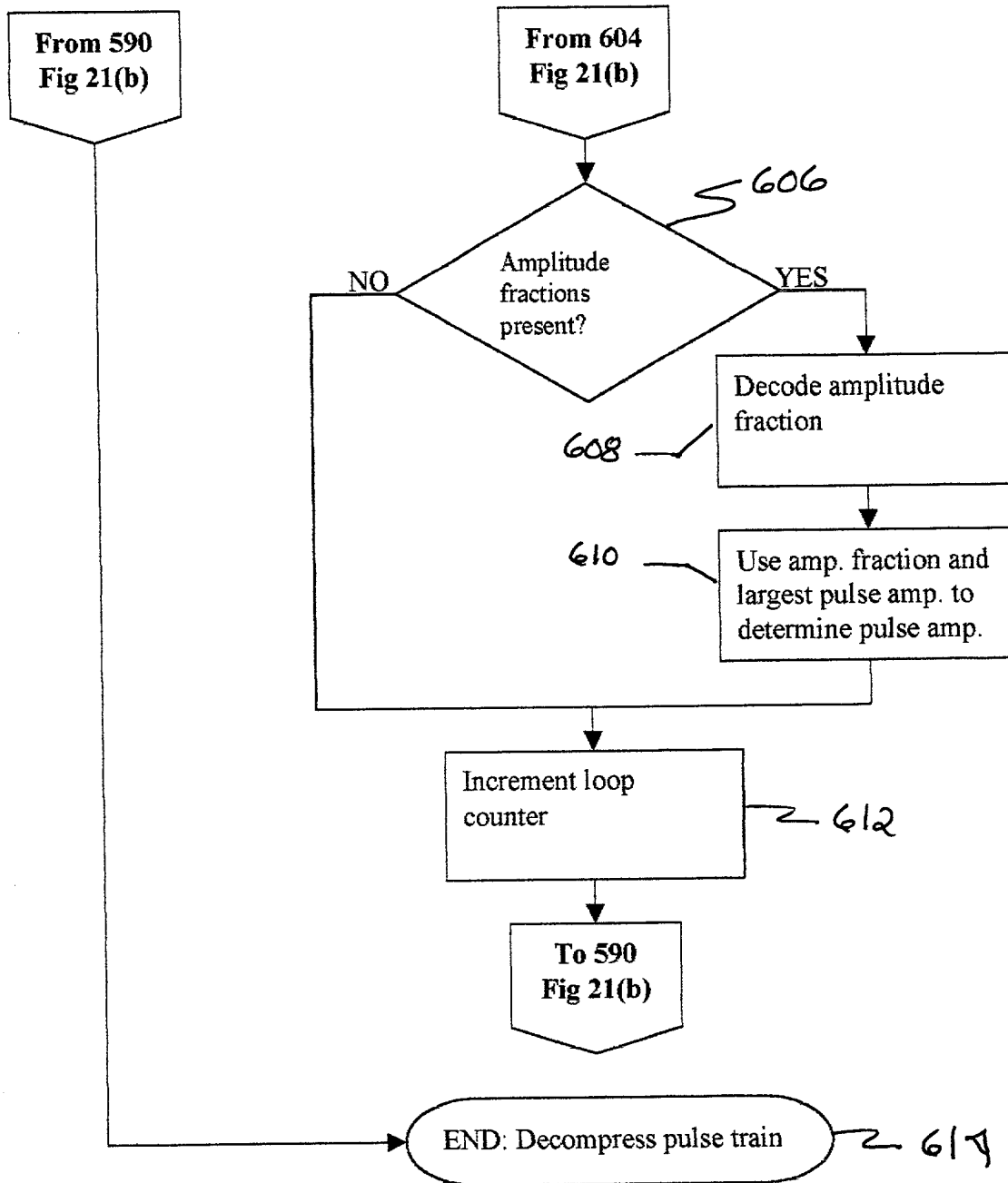


Fig 21(c)

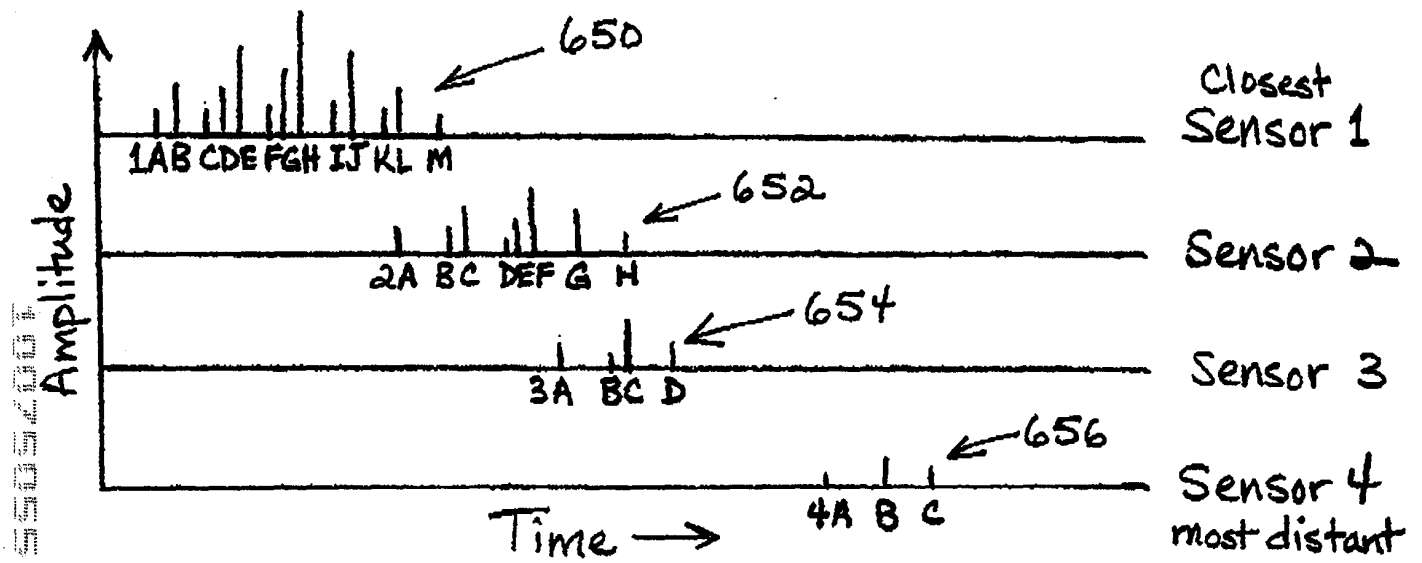
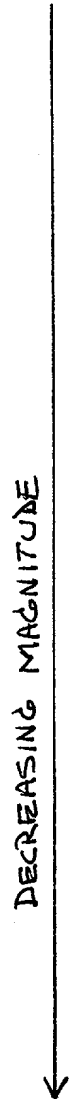


FIG. 22



SENSOR1	SENSOR2	SENSOR3	SENSOR4
1H	2F	3C	4B
1J	2G	3D	4C
1E	2C	3A	4A
1G	2E	3B	
1B	2A		
1L	2H		
1D	2B		
1F	2D		
1A			
1C			
1I			
1K			
1M			

FIGURE 23

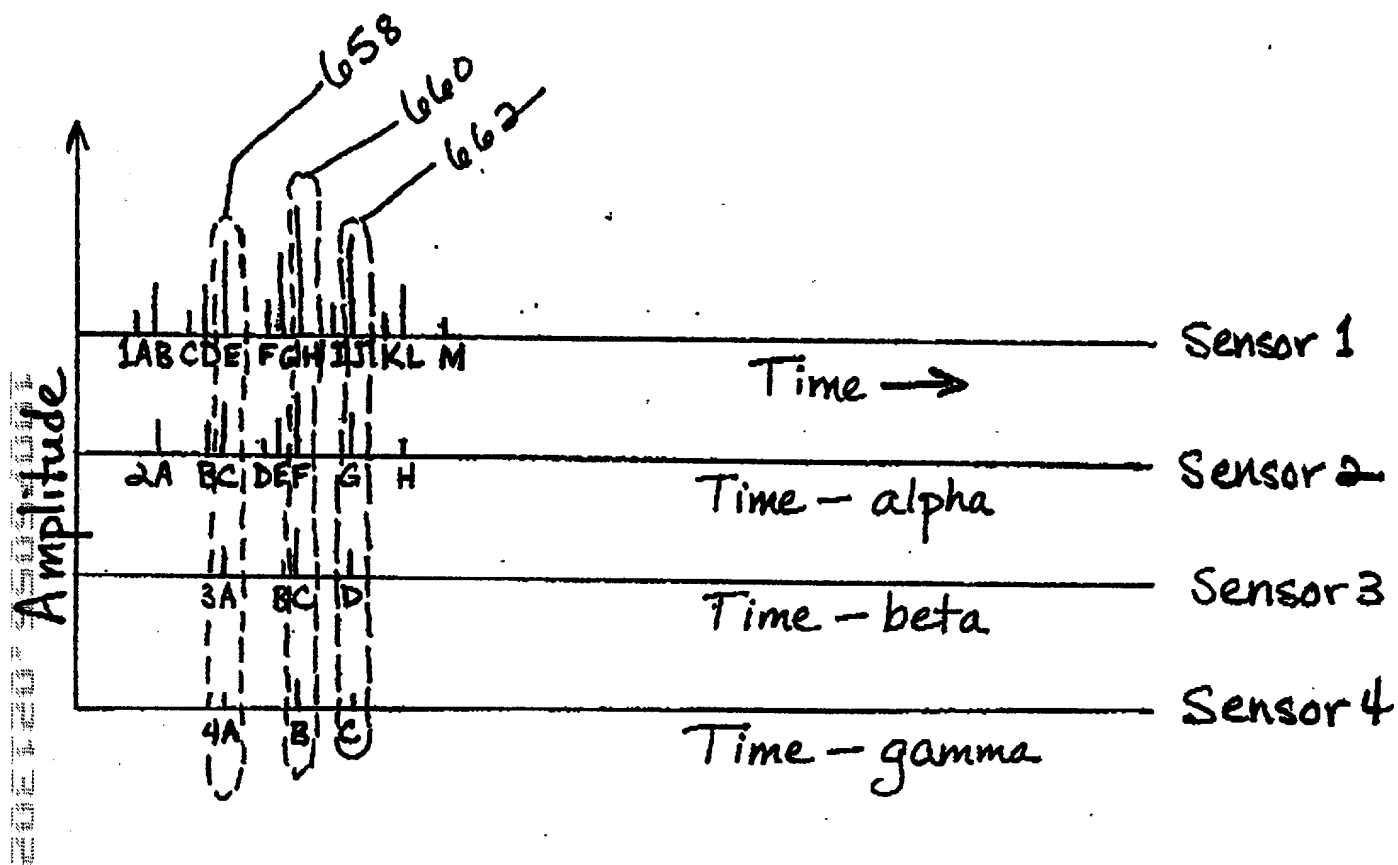


FIG. 24